

SMARC-sXAL4 (E2)



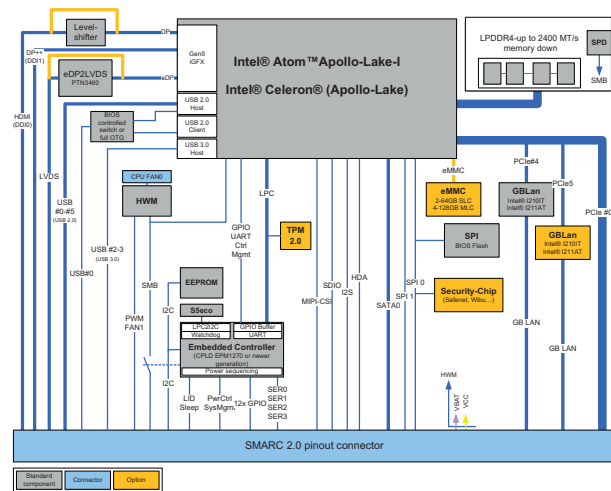
Latest Generation Intel Atom[®], Pentium[®] and Celeron[®] Processor Series

- ▶ Up to 8 GByte LPDDR4 memory down
- ▶ Triple display support
- ▶ 2x USB 3.0, 4x USB 2.0 (optional 1x USB OTG), 1x SATA, eMMC onboard, up to 2x LAN
- ▶ Industrial grade temperature
- ▶ Kontron APPROTECT security solution based on Wibu-Systems CodeMeter[®]

POSSIBILITIES START HERE

TECHNICAL INFORMATION

COMPLIANCE	SMARC 2.0
DIMENSIONS (H X W X D)	82 x 50 mm
CPU	Intel Atom® x7-E3950, 4C, 1.6 / 2.0 GHz, 12 W TDP Intel Atom® x5-E3940, 4C, 1.6 / 1.8 GHz, 9.5 W TDP Intel Atom® x5-E3930, 2C, 1.3 / 1.8 GHz, 6.5 W TDP Intel® Pentium® N4200, 4C, 1.1 / 2.5 GHz, 6 W TDP Intel® Celeron® N3350, 2C, 1.1 / 2.4 GHz, 6 W TDP
CHIPSET	-
MAIN MEMORY	Up to 8 GByte LPDDR4 memory down
GRAPHICS CONTROLLER	Intel HD Gfx Gen9
ETHERNET CONTROLLER	Intel® I210IT/I211AT (up to 2x)
ETHERNET	10/100/1000 MBit Ethernet
STORAGE	1x SATA 6 Gb/s
FLASH ONBOARD	up to 128 GByte eMMC (MLC)
PCI EXPRESS® SUPPORT	up to 4x PCIe x1 (without LAN)
PANEL SIGNAL	1x HDMI (on request DP), 1x DP++, 1x LVDS dual channel (on request eDP)
USB	2x USB 3.0 (incl. USB 2.0) + 4x USB 2.0, alternatively USB #0 as OTG
SERIAL	4x serial interfaces (2x RX / TX only)
OTHERS	HD Audio and I2S, 5x I2C, 2x SPI, Camera Interface (2x MIPI CSI), 12x GPIOs
SPECIAL FEATURES	Trusted Platform Module TPM 2.0 Industrial Temperature Grade versions
FEATURES ON REQUEST	0x LAN -> 4x PCIe 1x LAN 2x LAN eMMC: up to 32 GByte pSLC RAM: from 2 GByte to 8 GByte LPDDR4 Kontron APPROTECT security solution based on Wibu-Systems CodeMeter®
BIOS	AMI Aptio V
OPERATING SYSTEM	Windows® 10, Enterprise, Windows 10 IoT, Linux, VxWorks
POWER SUPPLY	5V only
TEMPERATURE	SMARC-sXAL: Commercial temperature: 0 °C to +60 °C operating, -30 °C to +85 °C non-operating SMARC-sXAL E2: Industrial temperature: -40 °C to +85 °C operating, -40 °C to +85 °C non-operating
HUMIDITY	93 % relative Humidity at 40 °C, non-condensing (according to IEC 60068-2-78)



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